

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A water-impermeable flexible polyurethane foam obtained by:

reacting a polyol component, ~~which comprises at least one hydrophobic polyol,~~ with at least one polyisocyanate component in the presence of a foaming agent;

wherein:

the polyol component comprises at least one hydrophobic polyol;

the foam characterized in that it has a compression force of less than or equal to 12 kPa for 50% compression; and

~~in that the~~ a molar ratio of the isocyanate functional groups to the ~~a total of the~~ alcohol functional groups and reactive functional groups (the index) is less than 0.90.

Claim 2 (Currently Amended): The polyurethane foam as claimed in claim 1, ~~characterized by a~~ wherein the compression force of is from around 8 to 12 kPa for 50% compression.

Claim 3 (Currently Amended): The polyurethane foam as claimed in claim 1, ~~characterized in that it~~ wherein the foam has a density not exceeding 150 kg/m³.

Claim 4 (Currently Amended): The polyurethane foam of claim 1, ~~characterized in that~~ wherein at least one ~~component from~~ of the polyol component and the polyisocyanate component has a functionality ~~strictly~~ greater than 2.

Claim 5 (Currently Amended): The polyurethane foam of claim 1, ~~characterized in that wherein~~ the isocyanate index is less than or equal to 0.85.

Claim 6 (Currently Amended): The polyurethane foam of claim 1, ~~characterized in that wherein~~ the polyol component ~~reacts~~ is reacted with the polyisocyanate component in the presence of a monofunctional alcohol or amine component.

Claim 7 (Currently Amended): The polyurethane foam of claim 1, ~~characterized in that wherein~~ the hydrophobic polyol ~~has~~ comprises a fatty hydrocarbon chain.

Claim 8 (Currently Amended): The polyurethane foam as claimed in claim 7, ~~characterized in that wherein~~ the hydrophobic polyol is derived from a fatty acid dimer.

Claim 9 (Currently Amended): The polyurethane foam of claim 1, ~~characterized in that wherein~~ the polyisocyanate component comprises ~~predominantly~~ 4,4'-methylene-bis(phenylisocyanate) (4,4'MDI).

Claim 10 (Currently Amended): The polyurethane foam as claimed in claim 9, ~~characterized in that wherein~~ the polyisocyanate component ~~contains~~ comprises at least 30 mol% of ~~the~~ a 2,4'MDI isomer.

Claim 11 (Currently Amended): The polyurethane foam of claim 1, ~~characterized in that wherein~~ the foaming agent comprises water.

Claim 12 (Currently Amended): The polyurethane foam of claim 1, ~~characterized in that it~~ wherein the foam is obtained in the presence of at least one ~~additive~~, additive having at least one reactive functional group that reacts with the polyisocyanate ~~compound~~ component or with the polyol ~~compound~~ component.

Claim 13 (Currently Amended): A process for manufacturing a ~~the~~ polyurethane foam as claimed in claim 1, ~~characterized in that it comprises~~ comprising:

preparing a reaction mixture comprising the polyol component, the polyisocyanate component and the foaming agent ~~is prepared~~;

casting the reaction mixture ~~is cast~~ on a conveyor belt; and

running the conveyor belt and the cast mixture ~~are made to run~~ through a crosslinking oven.

Claim 14 (Currently Amended): The process as claimed in claim 13, ~~characterized in that~~ further comprising:

depositing an upper protective film ~~is deposited~~ on the cast mixture;

wherein running the conveyor belt and the cast mixture comprises running the conveyor belt and the cast mixture ~~and the conveyor belt and the cast mixture~~ coated with the upper protective film ~~are made to run~~ through a the crosslinking oven.

Claim 15 (Currently Amended): The process of claim 14, ~~characterized in that~~ further comprising casting a lower protective film ~~is placed beforehand~~ on the conveyor belt before casting the reaction mixture on the conveyor belt.

Claim 16 (Currently Amended): The process of claim 15, ~~characterized in that~~
wherein at least one of the lower protective film or the upper protective film is provided
with comprises an adhesive on its face provided on a surface that contacts in contact with the
reaction mixture.

Claim 17 (Currently Amended): The process of claim 15, ~~characterized in that~~ further
comprising:

removing the lower protective film and/or the upper protective film; are removed and
attaching a further another film provided with comprising an adhesive is attached to a
free ~~face~~ surface of the foam strip.

Claim 18 (Currently Amended): A process for manufacturing a the polyurethane
foam as claimed in claim 1, ~~characterized in that it comprises~~ comprising:

preparing a reaction mixture comprising the polyol component, the polyisocyanate
component and the foaming agent ~~is prepared;~~

injection or casting the reaction mixture is injected or cast in a closed or open mold;
and

crosslinking the mixture is crosslinked in the mold.

Claim 19 (Canceled).

Claim 20 (Previously Presented): The polyurethane foam as claimed in claim 2,
wherein the polyurethane foam has a density not exceeding 150 kg/m³.

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Claim 21 (Previously Presented): The polyurethane foam as claimed in claim 1,
wherein the polyurethane foam has a density not exceeding 60 kg/m^3 .